

IN THE CLAIMS:

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

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1-9. (Canceled)

10. (Previously presented) The solid-state imaging device according to claim 11, which has a terminal for connection with a power source for supplying a voltage for generating a reference voltage for the common well from an outside of the solid-state imaging device.

11. (Currently amended) A solid-state imaging device having a first color picture cell array which contains picture cells having a photo-electric converting element for converting incident light to electric signals arranged two-dimensionally, and a second color picture cell array which contains picture cells having a photo-electric converting element for converting incident light to electric signals arranged two-dimensionally, placed in juxtaposition on a substrate,

wherein ~~said solid-state imaging device has between the first color picture cell array and the second color picture cell array a plurality of well-contacts and a well-wiring for applying a reference voltage to a common well common to the first color picture cell array and the second color picture cell array the first and second color picture cell arrays are provided with their respective color filters of a single color and focusing lens.~~

wherein said substrate is formed from a material having a first conductivity type and has said a common well formed therein from a material having the opposite conductivity type to said substrate, said common well having a doped region therein of the same conductivity as the said common well,

wherein the well contacts and well wiring are provided on regions of said common well which regions are peripheral ones bordering on their respective at least three sides of each of the first and second color picture cell arrays.

wherein a number of the sides of each color picture cell arrays is the same as one another, and

wherein said well-contacts are connected to said doped region and are arranged at a greater pitch than a pitch of said picture cells.

12. (Original) The solid-state imaging device according to claim 11, wherein the well-wiring is formed from a light-intercepting material to intercept the incident light upon the common well region between the first color picture cell array and the second color picture cell array.

13-16. (Canceled)

17. (Original) The solid-state imaging device according to claim 11, wherein the photo-electric converting element is a photodiode, the picture cell has plural transistors of an insulating gate type, the common well provides a first conductivity type semiconductor region for an anode or a cathode of the photodiode, and each first conductivity type well for the plural insulating gate type transistors.

18. (Original) The solid-state imaging device according to claim 11, wherein the photo-electric converting element is a photodiode, and the common well provides a first conductivity type semiconductor region for an anode or a cathode of the photodiode, and a well for formation of a charge transfer channel of CCD.

19. (Original) The solid-state imaging device according to claim 11, wherein a third color picture cell array is additionally provided which array contains picture cells having a photo-electric converting element for converting incident light to electric signals arranged two-dimensionally.

20. (Canceled)

21. (Currently amended) A solid-state imaging device having a first color picture cell array which contains picture cells having a photo-electric converting element for converting incident light to electric signals arranged two-dimensionally, a second and third picture cell arrays which respectively contain picture cells having a photo-electric converting element for converting incident light to electric signals arranged two-dimensionally, and a fourth color picture cell array which contains picture cells having a photo-electric converting element for converting incident light to electric signals arranged two-dimensionally, placed in juxtaposition on a substrate,

wherein the first color picture cell array and the fourth color picture cell array are placed in a diagonal relation, and the second color picture cell array and the third color picture cell array are placed in another diagonal relation; and

~~said solid-state imaging device has between the first color picture cell array and the second color picture cell array a plurality of well-contacts and a well-wiring for applying a reference voltage to a common well common to at least the first color picture cell array and the second color picture cell array;~~

wherein the first through fourth color picture cell arrays are provided with their respective color filters of a single color and focusing lens,

wherein said substrate is formed from a material having a first conductivity type and has a common well formed therein from a material having the opposite conductivity type to said substrate, said common well having a doped region therein of the same conductivity as the said common well,

wherein the well contacts and well wiring are provided on regions of said common well which regions are peripheral ones bordering on their respective at least three sides of each of the first through fourth color picture cell arrays,

wherein a number of the sides of each color picture cell arrays are the same as one another, and

wherein said well-contacts are connected to said doped region and are arranged at a greater pitch than a pitch of said picture cells.

22-31. (Canceled)

32. (Original) The solid-state imaging device according to claim 21, wherein the common well is common to all of the first to fourth picture cell arrays.

33. (Canceled)

34. (Original) The solid-state imaging device according to claim 21, wherein the first color picture cell array has a color filter of one color of red and blue, the second and the third color picture cell arrays have green filters respectively, and the fourth color picture cell array has a color filter of the other color of red and blue.

35. (Canceled)

36. (Canceled)

37. (Original) An imaging device for imaging an object, comprising a solid-state imaging device set forth in claim 11, and a power source for supplying a voltage for generating a reference voltage for the well wiring of the solid-state imaging device from an outside of the solid-state imaging device.

38. (Original) An imaging device for imaging an object, comprising a solid-state imaging device set forth in claim 11, and a focusing lens for focusing an image of an object on the color picture cell arrays.

39. (Original) An imaging device for imaging an object, comprising a solid-state imaging device set forth in claim 21, and a power source for supplying a voltage for generating a reference voltage for the well wiring of the solid-state imaging device from an outside of the solid-state imaging device.

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40. (Original) An imaging device for imaging an object, comprising a solid-state imaging device set forth in claim 21, and a focusing lens for focusing an image of an object on the color picture cell arrays.

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